

## <u>KlasseCLAD™ Foil Barrier Jacketing</u>

### Construction:

5 ply, UV coat and multilayered laminate with pressure sensitive adhesive and release paper liner

### Feature:

KlasseCLAD<sup>™</sup> is a peel off and self-adhesive design requiring no additional mastics or adhesives to create a seal. It is an advanced and economical alternative insulation for replacement of mastics, glass fibre cloth, butyl sheeting, and other types of insulation materials. Its excellent weathering properties make it suitable for both indoor & outdoor applications.

KlasseCLAD<sup>™</sup> installs easily and fast, which eliminates the need for expensive offsite fabrication. An adhesive taped product requires no screws, velvets or sealants, reducing the possibility of human error and repair. It is lightweight, flexible and easy to cut without special tools, allowing for low labour cost. Multi-layer laminated construction provides resistance to absolute moisture ingress and other harsh environmental conditions.

Property	Typical Value	
Material Thickness	5.2 mils (O.133mm) – Smooth	
Without liner	9.4 mils (0.240mm) – Emboss	
Peel Adhesion	20.3 N/25mm	
Shear Adhesion	>72 hrs	
Tensile Strength	315N/25mm	
Puncture	277.5 N	
Elongation	98%	
Water Vapour Permeance	<0.0005g/m2.24hrs	
Service Temperature	-70°C to + 150°C	
Flame/Smoke Rating	<25/50, Class 1/Class A	
	BS476 parts 6 & 7, Class 'O'	

KlasseCLAD<sup>™</sup> can be used over most types of thermal insulation including cellular glass, polyurethane, polyisocyanurate, polystyrene and rigid fibrous.

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# TECHNICAL DATA SHEET



#### Available sizes:

500mm x 50m rolls

Colours available:

Silver, White and Black

Finishes available:

Silver: Smooth or Embossed

White and Black: Smooth.

Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because Klasse cannot accept responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.

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Klasse Group Ltd, Beacon House, Queensway, Swansea West Business Park, Swansea, SA5 4DH

TECHNICAL DATA SHEET



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Material & Engineering Laboratory

Applicant Product Description Product Type Product Color Manufacturer Supplier	Klasse G KlasseC AL/PET SILVER Klasse G	Group Limited CLAD™ EMBOSSED C/AL/PET/AL Group Limited	
Product Submitted By Received Date Tested Date Remark	Klasse G JUNE 13 JUNE 13 The info Client (E	Klasse Group Limited JUNE 13 2017 JUNE 13 2017 – SEPT 4 2017 The information mentioned in the above section is provided by Client (Exclude Date of Sample Received and Date of Testing)	
Test Request :	1.Tensile Strength 2.Peel-Adhesion 3.Shear -Adhesion Test 4.Weather Resistance test-UV Exposure 1000 h		
Test Method	1.   2.   3.   4. /	Ref. ASTM D882-12 Standard Test Method for Tensile Properties of Thin Plastic Sheeting PSTC-101 05/07 Peel Adhesion of Pressure Sensitive Tape-Method A PSTC-107 05/07 Shear Adhesion of Pressure Sensitive Tape-Method A ASTM G154-16 Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials	
Test Apparatus:			

Name	Brand	Model
Tensile Machine	INSTRON	5969
Accelerated Weathering tester	Q-LAB	QUV /Spray

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Test Result:

Test Item	Result	
Tensile Strength(MPa)		
MD	43	
CD	56	
Elongation(%)		
MD	76	
CD	69	
Peel-Adhesion (N/25mm)	31	
Shear -Adhesion test(h)	153	
Weather Resistance Test(1000h)		
Appearance	Color No Change, No Cracking ,Peeling and brittle	
Tensile Strength(MPa)		
MD	40	
CD	49	
Elongation(%)		
MD	88	
CD	68	
Peel-Adhesion (N/25mm)	34	
Shear -Adhesion test(h)	94	

Note: I.Test Condition:23±1 °C ,50±5% RH

2. Shear -Adhesion test :Adhesion area:24±0.5mmx24±0.5mm / Adhesion Stress:2.20psi(l 5.2kPa)

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